ATC Communications
524 Nebraska Ave
Arapahoe, NE 68922

REF: Proceeding RM-11812

ATC Communications dba ATCJet.net LLC is a provider of broadband internet services to forty-three communities in Southwest Nebraska. Approximately 1500 of our current subscribers are served through fixed wireless technologies. Since 2005, Our company has leveraged the UNII-3 band to provide relevant high-speed internet services to our subscribers throughout our service footprint. More recently, the UNII-1 band has been employed, improving the capacity of our network systems to provide services to these communities and keep pace with the exponentially growing demand for bandwidth.

With the demand for higher capacity increasing, point-to-multipoint system have employed many new techniques including increasing QAM rates, multiple radio chains, MIMO, and wider channel bandwidths. While each of these technologies increase the available bandwidth to end users through a given base station, the improvements cited are realized most often by those subscribers with the shortest link paths to the transmitter locations. In the summer of 2016, ATCJet.net began to deliver services over base stations that offered beam-steering antennas. The practical results of this technology break the mold and have improved services for subscribers at greater range. This allows us to serve more customers from a given site with more evenly distributed customers having access to high-speed services. Finally, having employed beam-steering technologies we have seen better interference immunity and less co-site interference at locations employing this technology.

Many of our sites support clients at ranges up to six miles. Given the low population density of the territory we serve, it can be impractical to add additional sites to serve the most rural portions of our market. Should the FCC choose to adopt the rule changes suggested by RADWIN LTD, providers like ATCJet.net can reach further into their network coverage areas, providing higher capacity services to more users. At the same time, a given geography could potentially see less noise in a given coverage area improving the opportunity for competition or density of total base stations at a given site.

ATCJet.net supports the petition for rulemaking submitted by RADWIN LTD on June 18, 2018. Should the FCC agree, the case for rural high-speed broadband internet services becomes far more practical for providers choosing to employ beam-steering technologies regardless of the equipment manufacturer. More subscribers to fixed wireless services will see connections that comply with baseline connectivity and reliability in the networks will improve.

Sincerely,

Donnie McCorkle
ATC Communications
Wireless Information Systems Specialist